DURAFIDE® 6150T6

Polyplastics - Polyphenylene Sulfide

General Information

Product Description	
Special	
High Impact	

General	
Filler / Reinforcement	• Glass Fiber\Mineral, 50% Filler by Weight
Features	• High Impact Resistance
UL File Number	• E109088
Forms	• Pellets
Part Marking Code (ISO 11469)	• >PPS-I-(GF+MD)50<

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.71	g/cm³	ISO 1183
Water Absorption (24 hr, 73°F, 0.0394 in)	0.050	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	22500	psi	ISO 527-2
Tensile Strain (Break)	1.7	%	ISO 527-2
Flexural Modulus	1.91E+6	psi	ISO 178
Flexural Stress	32600	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.5	ft·lb/in²	ISO 179/1eA
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	90		ISO 2039-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	518	°F	
CLTE - Flow	5.6E-6	in/in/°F	Internal Method
CLTE - Transverse	2.2E-5	in/in/°F	Internal Method
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Electric Strength (0.118 in)	410	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
1 kHz	4.50		
1 MHz	4.40		
Dissipation Factor			IEC 60250
1 kHz	4.0E-3		
1 MHz	5.0E-3		
Arc Resistance	126	sec	ASTM D495
Comparative Tracking Index	150	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (Only black)	V-0		UL 94

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Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (590°F, 1000 sec^-1)	240000	mPa·s	ISO 11443

Additional Information	Nominal Value	Unit
Color Number	HF2000/HD9100	